# (19) World Intellectual Property Organization International Bureau



## . | 1650 | 1680 | 1680 | 1680 | 1680 | 1680 | 1680 | 1680 | 1680 | 1680 | 1680 | 1680 | 1680 | 1680 | 1680 | 1

#### (43) International Publication Date 12 January 2006 (12.01.2006)

### **PCT**

# (10) International Publication Number WO 2006/003746 Al

(51) International Patent Classification':

**HOIB 11/06** 

(21) International Application Number:

PCT/JP2005/007271

(22) International Filing Date: 7 April 2005 (07.04.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 2004-194156

30 June 2004 (30.06.2004) JP

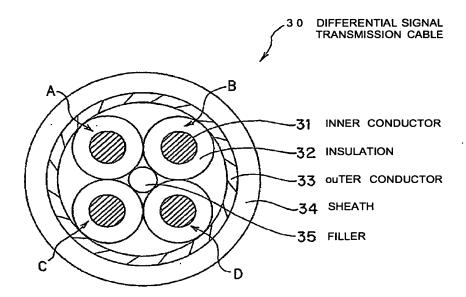
- (71) Applicant (for all designated States except US): HI-TACHI CABLE, LTD. [JP/JP]; 6-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 1008166 (JP).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MATSUI, Hakaru [JP/JP]; c/o HITACHI CABLE, LTD., 6-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 1008166 (JP). KOMURO, Hiroshi [JP/JP]; c/o HITACHI CABLE, LTD., 6-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 1008166 (JP). AKUTSU, Nobuhito [JP/JP]; c/o HITACHI CABLE,

LTD., 6-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 1008166 (JP). NAKAHIGASHI, Fumitaka [JP/JP]; c/o HITACHI CABLE, LTD., 6-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 1008166 (JP).

- (74) Agent: HIRATA, Tadao; HIRATA & PARTNERS, World-Wide Center, 1-13, Sanba-cho, Chiyoda-ku, Tokyo 1020075 (JP).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: DIFFERENTIAL SIGNAL TRANSMISSION CABLE



(57) Abstract: A differential signal transmission cable has four stranded cores, each formed of an inner conductor covered with an insulation of fluorocarbon resin; an outer conductor being spirally wrapped around the four stranded cores in the opposite direction to a stranding direction of the cores; and a sheath formed around the outer conductor, where the diameter of the cable is 1.0 mm or less.

## WO 2006/003746 A1



FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

#### Published:

with international search report